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MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Safe Step Pro Series 570 Select Blend Blue

CAS # Mixture
Product use De-icer

Manufacturer North American Salt Company

A Compass Minerals Company 9900 West 109th Street, Suite 100 Overland Park, KS 66210 US

Phone: 913-344-9200

CHEMTREC 1-800-424-9300

2. Hazards Identification

Emergency overview CAUTION

Contact may cause eye and skin irritation.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.
Skin May cause irritation.

Inhalation Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin. Respiratory system.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

OSHA Regulatory Status This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Sodium chloride	7647-14-5	70 - 100
Potassium chloride	7447-40-7	3 - 25
Urea	57-13-6	0.1 - 1

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

General advice If you feel unwell, seek medical advice (show the label where possible). Avoid contact

with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties Not flammable by OSHA criteria.

Extinguishing media

Suitable extinguishing media

Treat for surrounding material.

Unsuitable extinguishing media

Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

Explosion data

May include and are not limited to: Halogenated compounds. Some metallic oxides.

Sensitivity to mechanical

impact

Storage

Exposure limits

Not available

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

Methods for containment

Do not discharge into lakes, streams, ponds or public waters. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers,

basements or confined areas.

Methods for cleaning up Before attempting clean up, refer to hazard data given above. Use broom or dry

vacuum to collect material for proper disposal without raising dust. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and

regional authority requirements.

7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material.

Avoid dust formation.

Wash thoroughly after handling. Keep out of reach of children.

Keep containers tightly closed in a cool, well-ventilated place.

8. Exposure Controls / Personal Protection

Ingredient(s) Exposure Limits

Potassium chloride

ACGIH-TLV

Not established

OSHA-PEL

Not established

Sodium chloride ACGIH-TLV
Not established

OSHA-PEL Not established

Urea ACGIH-TLV

Not established
OSHA-PEL
Not established

Engineering controls

TWA PEL: No specific limits have been established for potassium chloride or sodium chloride (soluble substances). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for potassium chloride or sodium chloride (soluble substances). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If user operations generate dust, fumes, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields.

Hand protection

Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection

As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator

or NIOSH-approved filtering facepiece.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Crystalline. **Appearance** Blue Color Solid. Form Odor Odorless Not available Odor threshold Solid Physical state Not available pΗ Not available Freezing point Not available **Boiling point** Not available Pour point Not available **Evaporation rate** Not applicable Flash point Not available **Auto-ignition temperature** Flammability limits in air, lower, % Not applicable by volume Flammability limits in air, upper, % Not applicable by volume Vapor pressure Not available Not available Vapor density Not available Specific gravity Not available Octanol/water coefficient Partially soluble Solubility (H2O)

10. Stability and Reactivity

Reactivity

This product may react with strong acids.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Chemical stability

Stable.

Conditions to avoid

Do not mix with incompatible materials.

Incompatible materials

Acids.

Hazardous decomposition products May include and are not limited to: Halogenated compounds. Some metallic oxides.

Issue date

11. Toxicological Information			
Component analysis - LC50 Ingredient(s)	LC50		
Potassium chloride	Not available		
Sodium chloride	> 21000 mg/m3 rat		
Urea	Not available		
Component analysis - Oral LD50 Ingredient(s)	LD50		
Potassium chloride	1500 mg/kg mouse; 2500 mg/kg guinea pig; 2600 mg/kg rat		
Sodium chloride	3000 mg/kg rat; 4000 mg/kg mouse		
Urea	11000 mg/kg mouse; 8471 mg/kg rat; 510 mg/kg cattle; 510 mg/kg sheep		
Effects of acute exposure			

Eye

May cause irritation.

Skin

May cause irritation.

Inhalation

Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion

May cause stomach distress, nausea or vomiting.

Sensitization **Chronic effects** Non-hazardous by OSHA criteria. Non-hazardous by OSHA criteria.

Carcinogenicity

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Mutagenicity

Non-hazardous by OSHA criteria.

Reproductive effects

Non-hazardous by OSHA criteria.

Teratogenicity

Non-hazardous by OSHA criteria.

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

Ecotoxicity	May be harmful to freshwater aquatic species and to plants that are not saline tolerant.
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Mobility in environmental media	Not available
Environmental effects	Not available
Aquatic toxicity	Not available
Partition coefficient	Not available
Chemical fate information	Not available

Disposal instructions

Waste must be disposed of in accordance with federal, state/provincial and local

environmental control regulations.

Waste from residues / unused

products

Not available

Contaminated packaging

Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

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15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

US Federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA (Superfund) reportable quantity

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 311 hazardous chemical No

Clean Water Act (CWA)

Not available

State regulations

This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

United States & Puerto Rico

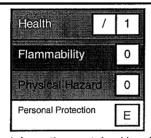
Toxic Substances Control Act (TSCA) Inventory

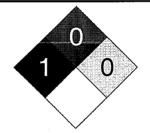
Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Issue date

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Effective date

15-Feb-2013

Expiry date

01-Jun-2015

Prepared by

Dell Tech Laboratories Ltd. (519) 858-5021

Other information

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

07-Dec-2012